National Institute of Standards and Technology

NVLAP®

National Voluntary Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation

CALIBRATION LABORATORIES **NVLAP LAB CODE 200262-0**

METROPLEX METROLOGY LAB, INC.
2309 E. Loop 820 North
Fort Worth, TX 76118-7103
Mr. James L. Johnson
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E-Mail: jjohnson@metroplexmetrology.com
URL: http://www.metroplexmetrology.com

NVLAP Code: 20/A01 ANSI/NCSL Z540-1-1994; Part 1 Compliant

DIMENSIONAL

NVLAP Code: 20/D01
Angular

	Range	*Best Uncertainty (±)*[note 1]	*Remarks*
Levels	All Sizes	140 μin per 12 in (2.4 seconds)	Gage Blocks
Sine Bar & Plates	All Sizes	6 seconds	Angle Gage Blocks

NVLAP Code: 20/D03
Gage Blocks - Steel and Ceramic

Remarks	*Best Uncertainty (±) in μin*[note 1]	*Remarks*
to 1 in	2.2	Comparison to Master
>1 in to 4 in	(0.8 + 0.8L)[note 2]	Comparison to Master

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Gage Blocks - Chrome Carbide		
to 1 in	5.0	Comparison to Master
>1 in to 4 in	(1.0 + 4.0L)[note 2]	Comparison to Master
Gage Blocks - Long Blocks		
>4.0 in to 20 in	(8 + 2.2L)[note 2]	Comparison to Master

NVLAP Code: 20/D05
Length and Diameter

	Range	*Best Uncertainty in µin (±)*[note 1]	*Remarks*
Calipers[note 6]	to 72 in	(550 + 22L)[note 2]	Gage Blocks
OD Micrometers[note 6]	to 36 in	(58 + 22.8L)[note 2]	Gage Blocks
ID Micrometers[note 6]	to 1.0 in	66	Comparison to Gage Blocks
ID Micrometer Rods	to 30 in	(32 + 3.6L)[note 2]	Comparison to Gage Blocks

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Micrometer End Stds.			Comparison to Gage Blocks
Superficial	to 30 in	(32 + 3.6L)*note 2*	Comparison to Gage Blocks
Flat	to 30 in.	(22 + 3.8L)*note 2*	Comparison to Gage Blocks
Heights Gages*note 6*	to 40 in	(110 + 23L)*note 2*	Comparison to Gage Blocks
Dial Indicators*note 6*			
Resolution	0.0010 in	200	Comparison to ULM
	0.0005 in	104	Comparison to ULM
	0.0001 in	30	Comparison to ULM
Radius Gages	All Sizes	180	Optical Comparator
Optical Comparators*note 6*			
Linear Travel	to 30 in	224	

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NVLAP Code: 20/D07
Measuring Wires

	Range	*Best Uncertainty in µin (±)*[note 1]	*Remarks*
Thread Wires	29 ° and 60 °	13	In accordance with ANSI/ASME B1.2

NVLAP Code: 20/D11
Spherical Diameter

	Range	*Best Uncertainty in µin (±)*[note 1]	*Remarks*
Plain Plug Gages	to 12 in	(16 + 4.8L)[note 2]	Comparison to Gage Blocks
Plain Ring Gages	to 7 in	(22 + 4.6L)[note 2]	Comparison to Master Ring
Pin Gages	to 1 in	20	Comparison to Gage Blocks

NVLAP Code: 20/D12
Surface

	Range	*Best Uncertainty in µin (±)*[note 1]	*Remarks*
Surface Plates[note 6]	to 72 X 144 in	10 + 13D[note 3]	Laser

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NVLAP Code: 20/D14
Threaded Plug and Ring Gages

	Range	*Best Uncertainty in μin (±)*[note 1]	*Remarks*
Threaded Plug Gages			
Pitch Diameter	to 17 in	(76 + 8L)[note 2]	Over wire measurement
Major Diameter	to 17 in	(16 + 4L)[note 2]	Direct Measurement
Threaded Ring Gages			
Pitch Diameter	to 8 in	(176 + 24L)[note 2]	Functional
Minor Diameter	to 3 in	120	
	to 8 in	200	

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MECHANICAL

NVLAP Code: 20/M06
Force - Torque Wrenches[note 6]

Range	*Best Uncertainty (±) in %*[note 1]	*Remarks*
to 250 1bf·ft	(0.64 + 0.006T)[note 4]	Torque Tester

NVLAP Code: 20/M13
Hardness - Rockwell Hardness Tester Verification[note 6]

Range	*Best Uncertainty (±)*[note 1]	*ASTM E-18*
C Scale	1.2 Rockwell Points	Indirect Method Temperature Range 72°F to 81 °F

THERMODYNAMICS

NVLAP Code: 20/T03
Laboratory Thermometers - Liquid-in-glass

Range	*Best Uncertainty (±) in %*[note 1]	*Remarks*
-5°C to 125°C	0.06°C	Comparison to PRT

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NVLAP Code: 20/T05
Pressure Gages[note 6]

Range	*Best Uncertainty (±) in %*[note 1]	*Remarks*
0 to 150 PSI	(0.024 + 0.0008P) PSI[note 5]	Comparison to Master
>150 thru 5000 PSI	(4 + 0.003P) PSI[note 5]	Comparison to Master
>5000 thru 30000 PSI	(24 + 0.0014P) PSI[note 5]	Comparison to Master

1. Represents an expanded uncertainty using a coverage factor, k=2.
2. L=Length in inches
3. D=Diagonal Length in feet
4. T= Torque in LBF. FT
5. P= Pressure in PSI
6. Items available for on-site service. Based on environmental variances uncertainties will generally be greater than those listed in this scope.

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